## **IN THE CLAIMS**

Claims 1-8 have previously been cancelled without prejudice.

Claims 11-15 have previously been cancelled without prejudice as being drawn to a non-elected invention.

Please amend claims 9, 10, 16-19, 21, and 26-28.

Please enter the pending claims, including claims 9, 10, 16-28, as follows:

- 1. 8. (Cancelled)
- 9. (Currently Amended) An apparatus comprising:
  - a platen;
  - a polishing pad disposed over said platen;
- a segmented cathode disposed around edge of said polishing pad and between said platen and a rear surface of said polishing pad;
  - a slurry disposed on said polishing pad;
- a wafer disposed on said polishing pad and said slurry, said wafer having a body that is electrically conductive;
  - a wafer carrier to hold said wafer;

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<u>a chiller or heater to circulate a fluid within said platen and within said</u> <u>wafer carrier;</u>

a segmented anode disposed between a rear surface of <u>said body of</u> said wafer and said wafer carrier, said segmented anode being partitioned into small components that may be <u>electrically</u> adjusted separately to change polishing rates <u>and polishing selectivities</u> for different materials <u>in a surface layer of said wafer</u>;

an enclosure disposed around said platen and said wafer carrier;

a power supply to apply a voltage <u>or current</u> between said segmented cathode and said segmented anode; and

a computer to vary said voltage <u>or said current</u> to improve uniformity of said polishing rates <u>and said polishing selectivities</u>.

10. (Currently Amended) The apparatus of claim 9 wherein <u>said surface layer of</u> said wafer comprises a continuous and conductive surface layer.

## 11. - 15. (Cancelled)

16. (Currently Amended) The apparatus of claim 9 wherein said computer optimizes <u>said</u> polishing rates <u>or said</u> polishing selectivities for <u>said</u> different materials [[on]] <u>in said surface layer of</u> said wafer by varying said voltage <u>or said</u> <u>current</u>.

17. (Currently Amended) The apparatus of claim 9 wherein said computer varies said voltage <u>or said current</u> as a function of time.

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- 18. (Currently Amended) The apparatus of claim 9 wherein said computer varies said voltage or said current as a function of temperature.
- 19. (Currently Amended) The apparatus of claim 9 wherein said computer varies said voltage <u>or said current</u> as a function of process parameter.
- 20. (Previously Presented) The apparatus of claim 19 wherein said process parameter comprises slurry flowrate.
- 21. (Currently Amended) The apparatus of claim 9 wherein said computer varies said voltage or said current as a function of tool parameter.
- 22. (Previously Presented) The apparatus of claim 21 wherein said tool parameter comprises speed of rotation of said platen.
- 23. (Previously Presented) The apparatus of claim 21 wherein said tool parameter comprises speed of rotation of said wafer carrier.
- 24. (Previously Presented) The apparatus of claim 9 wherein said computer comprises feedforward control of an electrochemical process.

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- 25. (Previously Presented) The apparatus of claim 9 wherein said computer comprises feedback control of an electrochemical process.
- 26. (Currently Amended) The apparatus of claim 9 wherein said computer comprises proportional control of said voltage <u>or said current</u>.
- 27. (Currently Amended) The apparatus of claim 9 wherein said computer comprises differential control of said voltage <u>or said current</u>.
- 28. (Currently Amended) The apparatus of claim 9 wherein said computer comprises integral control of said voltage <u>or said current</u>.